

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/010653

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D257/04 C07D271/10 C07D277/24 C07D271/06 C07D213/50  
C07D285/12 C07C317/24 C07D249/08 C07D275/06 A01N43/713

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D C07C A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, BEILSTEIN Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PL 171 529 B (INSTYTUT PRZEMYSŁU ORGANICZNEGO) 30 May 1997 (1997-05-30) the whole document	3,4,11, 12,14,15
A	HARRIS R L N ET AL: "THE EFFECT OF C-2-CARBOXYPHENYL DERIVATIVES OF CERTAIN HETEROCYCLIC COMPOUNDS ON ROOT GEOTROPISM IN CRESS SEEDLINGS" PESTICIDE SCIENCE, ELSEVIER APPLIED SCIENCE PUBLISHER, BARKING, GB, vol. 11, no. 4, 1980, pages 439-444, XP009019048 ISSN: 0031-613X compound (I)	3,4,11, 12,14,15



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

21 December 2004

Date of mailing of the international search report

09. 02. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3018

Authorized officer

Johnson, C

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/010653

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>SAWICKI E ET AL: "REACTION OF THIAOXANTHYDROL WITH COMPOUNDS CONTAINING ACTIVE HYDROGEN"</p> <p>JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, US, vol. 21, February 1956 (1956-02), pages 183-189, XP002063988</p> <p>ISSN: 0022-3263</p> <p>p. 186, right-hand column, penultimate paragraph;table III</p>	1,13,14, 16
X	<p>BAUMES R ET AL: "SUR UNE PRETENDUE FORME NH STABLE D'UNE PYRAZOLINE-3"</p> <p>JOURNAL OF HETEROCYCLIC CHEMISTRY, HETEROCORPORATION. PROVO, US, vol. 10, no. 5, October 1973 (1973-10), pages 763-767, XP002032956</p> <p>ISSN: 0022-152X</p> <p>compound dissolved in ethanol; page 764, right-hand column, line 15</p>	1,13,14, 16
X	<p>GHOSH ET AL: "Estrogenic diazenes: heterocyclic non-steroidal estrogens of unusual structure with selectivity for estrogen receptor subtypes"</p> <p>BIOORGANIC &amp; MEDICINAL CHEMISTRY, ELSEVIER SCIENCE LTD, GB, vol. 11, no. 4, 10 December 2002 (2002-12-10), pages 629-657, XP002299673</p> <p>ISSN: 0968-0896</p> <p>Scheme 6; crystallization in ethyl acetate;examples 24a,24b</p>	1,13,14, 16
X	<p>PENNING T D ET AL: "3,4- Diarylpyrazoles: potent and selective inhibitors of cyclooxygenase-2"</p> <p>BIOORGANIC &amp; MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 7, no. 16, 1997, pages 2121-2124, XP002235813</p> <p>ISSN: 0960-894X</p> <p>example 3</p>	1
X	<p>STAUFFER, S.R. ET AL.: "Estrogen pyrazoles: defining the pyrazole core structure and the orientation of substituents in the ligand binding pocket of the estrogen receptor"</p> <p>BIOORG. MED. CHEM., vol. 9, 2001, pages 141-150, XP002311545</p> <p>Scheme 1;</p>	1
	----- -/--	

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/010653

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 0031, no. 38 (C-064), 16 November 1979 (1979-11-16) -& JP 54 119027 A (UBE IND LTD; others: 01), 14 September 1979 (1979-09-14) abstract; example 28	1
X	LLORIS, M.E. ET AL.: "Alkylations of alpha-methyl substituted beta-diketones through their Cu(II) complexes. Preparation of sterically congested beta-diketones" TETRAHEDRON LETTERS, vol. 31, no. 51, 1990, pages 7489-7492, XP002311546 example 7d	1
X	SHOPPEE C W ET AL: "ACETYLENIC ALCOHOLS DERIVED FROM ALPHA-ALKYLDEOXYANISOINS, AND THE ALPHA-ALKYL-BETA-ETHYNYLSTILBENES" JOURNAL OF THE CHEMICAL SOCIETY, CHEMICAL SOCIETY. LETCHWORTH, GB, 1961, pages 1311-1321, XP009004205 ISSN: 0368-1769 example XXI	1

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/010653

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claim 5 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

3, 4, 11, 12, 14, 15

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 3, 4, 11, 12, 14, 15

use of compounds of formula (I) as herbicides and their  
compositions containing additional herbicides  
---

2. claim: 5

use of compounds of formula (I) as medicaments  
---

3. claims: 6-10

processes for preparing compounds of formula (I)  
---

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/010653

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
PL 171529	B	29-05-1995	PL 301073 A1	29-05-1995
JP 54119027	A	14-09-1979	NONE	